

1. A reproduction apparatus, comprising:

an input signal determination section for determining a type of the input signal based on whether or not a first synchronization signal among a series of N synchronization signal exists within a predetermined search area of the input signal (N is an integer equal to or greater than 2); and

2. A reproduction apparatus according to claim 1, wherein:

the input signal determination section determines whether or not a synchronization signal exists within the predetermined search area and, when a synchronization signal exists within the predetermined search area, calculates a position of a next synchronization signal based on the length of the frame so as to determine whether a next synchronization signal exists at the calculated position of the next synchronization signal.

3. A reproduction apparatus according to claim 2, wherein the length of the frame is calculated based on a bit rate of the header portion and a sampling frequency of the header portion.

7. A reproduction apparatus according to claim 1, wherein the predetermined search area is 2 Kbyte.

8. A reproduction apparatus according to claim 1 wherein, when the first synchronization signal among the series of N synchronization signal exists within the predetermined search area, the input signal determination section determines that the input signal is an encoded digital sound signal.

9. A reproduction apparatus according to claim 1 wherein, when the first synchronization signal among the series of N synchronization signal does not exist within the predetermined search area, the input signal determination section determines that the input signal is a pulse code modulation (PCM) digital sound signal.

10. A reproduction apparatus according to claim 1, wherein the input signal determination section includes:

a data counter for counting a data amount of the input signal to output an address of the input signal;

a synchronization signal detection section for detecting a synchronization signal in the input signal to output a detection signal which indicates a result of the detection;

a synchronization signal counter storage section in which the detection signal is incremented based on the detection signal output from the synchronization signal detection section;

a first synchronization signal address storage section for storing the address output from the data counter in response to a detection signal resulting from a first synchronization signal; and

a type determination section for determining the type of the input signal based on whether or not the address stored in the first synchronization signal address storage

11. A reproduction apparatus according to claim 10,
wherein:

the input signal determination section further includes

a next synchronization signal address storage section which calculates an address of a next synchronization signal next to the first synchronization signal based on the address stored in the first synchronization signal address storage section and the calculated address interval and, when the calculated address of the next synchronization signal matches the address output from the data counter, stores the address output from the data counter.

12. A reproduction apparatus according to claim 1, further comprising a host controller for changing an operating condition of the input signal determination section.

13. A reproduction apparatus according to claim 12, wherein the operating condition of the input signal determination

section includes at least one of a minimum unit of the input signal, the predetermined search area, and the value N.

14. A reproduction apparatus according to claim 13, wherein the minimum unit of the input signal is 1 bit.

15. A reproduction apparatus according to claim 13, wherein:

the input signal includes a variable-length frame including a header portion and a data portion; and

the predetermined search area is greater than the length of the frame.

16. A reproduction apparatus according to claim 4, further comprising a host controller for changing an operating condition of the input signal determination section,

wherein the operating condition of the input signal determination section includes the modified predetermined search area.

17. A reproduction apparatus according to claim 16, wherein a leading address of the modified search area is at a position at least one bit greater than a last address of the first synchronization signal among the series of N synchronization signals.

18. A reproduction apparatus according to claim 6, further comprising a host controller for changing an operating condition of the input signal determination section,

wherein the operating condition of the input signal determination section is a value of at least one of data which indicates a state of the frame included in the header portion.

20. A reproduction method, comprising steps of:

determining a type of the input signal based on whether or not a first synchronization signal among a series of N synchronization signal exists within a predetermined search area of the input signal (N is an integer equal to or greater than 2); and

21. A program for directing a computer to perform a reproduction process, the reproduction process comprising steps of:

determining a type of the input signal based on whether or not a first synchronization signal among a series of N synchronization signal exists within a predetermined search area of the input signal (N is an integer equal to or greater than 2); and

22. A computer-readable recording medium containing a program for directing a computer to perform a reproduction

Parameter	Value	Unit
Temperature	25.0	°C
Pressure	1.0	atm
Flow rate	1.0	L/min
Concentration	0.1	mol/L
pH	7.0	
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
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Temperature	30.0	°C
Wavelength	254	nm
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Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
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Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	